## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2	004/016066
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> B23K9/23, B23K35/30, C22C38/00, C22C38/06			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> B23K9/23, B23K35/30, C22C38/00, C22C38/06			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1926–1996 Toroku Jitsuyo Shinan Koho 1994–2005 Kokai Jitsuyo Shinan Koho 1971–2005 Jitsuyo Shinan Toroku Koho 1996–2005			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) .			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
X Y A Y	JP 3220406 B2 (Kawasaki Stee 10 August, 2001 (10.08.01), Claims; tables 2, 4 (Family: none) JP 2001-1148 A (Kawasaki Ste 09 January, 2001 (09.01.01), Claims; table 4	• ''	1-2,11 3-4 5-10 3-4 5-10
. A	(Family: none)  JP 3-153828 A (Nippon Steel 01 July, 1991 (01.07.91), Full text; all drawings (Family: none)	Corp.),	1-10
Further documents are listed in the continuation of Box C.  See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand	
to be of particular relevance  "E" earlier application or patent but published on or after the international		the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance: the claimed invention cannot be	
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
25 January, 2005 (25.01.05)		Date of mailing of the international search report 22 February, 2005 (22.02.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	